

ABSTRACT OF THE DISCLOSURE

DATA PROCESSING SYSTEM AND METHOD FOR MAINTAINING SECURE
USER PRIVATE KEYS IN NON-SECURE STORAGE

A data processing system and method are disclosed for maintaining secure user private keys in a non-secure storage device. A master key pair is established for the system. The master key pair includes a master private key and a master public key. The master key pair is stored in a protected storage device. A unique user key pair is established for each user. The user key pair includes a user private key and a user public key. The user private key is encrypted utilizing the master public key. The encrypted user private key is stored in the non-secure storage device, wherein the encrypted user private key is secure while stored in the non-secure storage device.

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